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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,332	11/04/2003 Ghasi R. Agrawal		03-1343	5874
24319 LSI CORPORA	7590 04/11/200 ATION	EXAMINER		
1621 BARBER	LANE	NGUYEN, STEVE N		
MS: D-106 MILPITAS, CA	x 95035		ART UNIT	PAPER NUMBER
			2117	
			MAIL DATE	DELIVERY MODE
			04/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	plication No. Applicant(s)					
Office Action Summary			10/701,332		AGRAWAL ET AL.			
			Examiner		Art Unit			
			STEVE NGU	YEN	2117			
Period fo	The MAILING DATE of this commun or Reply	ication appe	ars on the co	over sheet with the o	correspondence ac	idress		
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M asions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comn period for reply is specified above, the maximum st- re to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IAILING DAT of 37 CFR 1.136 nunication. atutory period will will, by statute, ca	TE OF THIS (a). In no event, I apply and will execuse the applicat	COMMUNICATION however, may a reply be tin spire SIX (6) MONTHS from ion to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	•		
Status								
1)[\	Responsive to communication(s) file	ad on 14 Feb	hruary 2008					
•	•	2b)⊠ This a	-	-final				
3)		/—			secution as to the	e merits is		
٥/١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	·	oo arraar Ex	parto quay	, , , , , , , , , , , , , , , , , , ,	30 0.0. 210.			
Dispositi	on of Claims							
•	Claim(s) <u>15-26</u> is/are pending in the							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>15-26</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restrict	ction and/or	election requ	uirement.				
Applicati	on Papers							
9)□	The specification is objected to by th	e Examiner.						
•	The drawing(s) filed on <u>10 August 20</u>			ed or b) objected	to by the Examine	er.		
/—	Applicant may not request that any obje		-	· -	-			
				-		FR 1.121(d).		
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	4) 5) 6)	=	ate			

DETAILED ACTION

Claims 15-26 are currently pending.

Response to Pre-Appeal Arguments

The Applicant argues that the claims specifically point out the step of adding access to additional redundant memory which is not required for the repair occurs after repairing the functional memory by adding access to redundant elements and after retesting the functional memory which has been repaired; and that McClure and Tanishima do not disclose or suggest this limitation.

The Examiner notes that McClure teaches testing the functional memory (col. 4, lines 14-17), repairing the memory (col. 4, lines 17-18), and re-testing the memory (col. 8, lines 3-7).

Tanishima teaches adding access to additional redundant memory not required for the repair (col. 6, lines 30-44) and testing the additional redundant memory (col. 7, line 66 to col. 8, line 8).

Both of these steps were known in the prior art. Therefore, the only differences between the claimed invention and the prior art are the order of the steps.

In view of KSR Int'l Co. v. Teleflex Inc., 2007 U.S. LEXIS 4745, (U.S. 2007), the Supreme Court has held that "a patent for a combination which only unites old elements with no change in their respective functions...obviously withdraws what is already known

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into the field of its monopoly and diminishes resources available to skillful men...The combination of familiar elements according to known methods is likely to be obvious when it does no more than yield predictable results."

In this case, all of the claimed elements are known in McClure and Tanishima. The only difference is that the method of Tanishima is not performed after that of McClure. However, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to perform the method of Tanishima after the steps of McClure as claimed because the steps of Tanishima could have been used in combination with the test method of McClure to achieve predictable results wherein each step in the references would have performed the same function as it did separately.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

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4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

1. Claims 15-26 rejected under 35 U.S.C. 103(a) as being unpatentable over McClure (US Pat. 5,841,709) in view of Tanishima et al (US Pat. 6,999,357; hereinafter referred to as Tanishima).

As per claims 15 and 21:

McClure teaches a method for testing memory, said method comprising:

- testing functional memory (col. 4, lines 14-17);
- repairing the functional memory by adding access to redundant elements (col. 4, lines 17-18);
- re-testing the functional memory which has been repaired (col. 8, lines 3-7);

Not explicitly disclosed by McClure is adding access to additional redundant memory which is not required for the repair after the repairing and re-testing; and after repairing and re-testing the functional memory and adding access to the additional redundant memory which has been added which was not required for the repair, testing the additional redundant memory which has been added which was not required for the repair.

However, Tanishima in an analogous art teaches adding access to additional redundant memory not required for the repair (col. 6, lines 30-44) and testing the additional redundant memory (col. 7, line 66 to col. 8, line 8). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to perform the method of Tanishima after the steps of McClure as claimed. One of ordinary skill in the art could have performed the steps of Tanishima following the steps

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of McClure to achieve predictable results wherein each step in the references would have performed the same function as it did separately.

As per claims 16 and 22:

McClure further teaches using repair information to repair the memory (col. 6, lines 8-20; a redundant column select signal is repair information).

As per claims 17-20 and 23-26:

Tanishima teaches forcing usage of redundant elements which are not needed to be used for repairing the memory; and faking defects to remap good elements with redundant elements (col. 6, lines 30-44 and col. 7, line 66 to col. 8, line 8).

Conclusion

2. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steve Nguyen whose telephone number is (571) 272-7214. The examiner can normally be reached on M-F, 9am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on (571) 272-6962. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JACQUES H LOUIS-JACQUES/ Supervisory Patent Examiner, Art Unit 2117

Steve Nguyen Examiner Art Unit 2117